40/586978 IAP6 Rec'd PCT/PTO 20 JUL 2006

1

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<i>J J</i>		ttt Phe 1195				_	_					agc Ser 1205	_			36	62
40	•	cat His 1210	_			_	-					aca Thr 1220				37	07
45												tct Ser 1235		cag Gln	_	37	52
50	aga Arg	agt Ser 1240	ggt Gly	cag Gln :	cct Pro	caa Gln	aag Lys 1245	gct Ala	gcc Ala	act Thr	tgc Cys	aaa Lys 1250	gtt Val	tct Ser	tct Ser	37	97
55												gaa Glu 1265		act Thr		38	42
33												ttg Leu 1280				38	87
60	gaa Glu	gat Asp 1285	gaa Glu	ata Ile	gga Gly	tgt Cys	aat Asn 1290	cag Gln	acg Thr	aca Thr	cag Gln	gaa Glu 1295		gat Asp		39:	32
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	Ala	Asn 1300		Leu	Gln	Ile	Ala 1305		lle	Lys	Glu	Lys 1310		Gly	Thr	
5			Ala					Ser				gca Ala 1325	Val			4022
10			Arg					Arg				tct Ser 1340	Ser			4067
15			Ser					Ala				tct Ser 1355				4112
		tct Ser 1360	Pro					Ala				aaa Lys 1370	Ser		cct Pro	4157
20			Tyr					Pro				agc Ser 1385		_	act Thr	4202
25		gtc Val 1390	Ser					Phe				tcg Ser 1400			agc Ser	4247
30			Gln					Ser				agt Ser 1415			ata Ile	4292
35			Ser									acc Thr 1430	_		cca Pro	4337
33			Ser									aca Thr 1445	-		acc Thr	4382
40												gct Ala 1460			aga Arg	4427
45		agt Ser 1465										gca Ala 1475	gtt Val	cag Gln		4472
50												cat His 1490				4517
55												agc Ser 1505	ctg Leu			4562
33	ctg Leu	agc Ser 1510	ctc Leu	gat Asp	gag Glu	cca Pro	ttt Phe 1515	ata Ile	cag Gln	aaa Lys	gat Asp	gtg Val 1520		tta Leu		4607
60		atg Met 1525			_	_	_		-			aat Asn 1535	-	aca Thr	-	4652
	tca	gag.	cag	cct	aaa	gaa	tca	aat	gaa	aac	caa	gag	aaa	gag	gca	4697

	Ser	Glu 1540	Gln	Pro	Lys	Glu	Ser 1545		Glu	Asn	Gln	Glu 1550	Lys	Glu	Ala	
5	gaa Glu	aaa Lys 1555	act Thr	att Ile	gat Asp	tct Ser	gaa Glu 1560	aag Lys	gac Asp	cta Leu	tta Leu	gat Asp 1565	gat Asp	tca Ser	gat Asp	4742
10	gat Asp	gat Asp 1570	gat Asp	att Ile	gaa Glu	ata Ile	cta Leu 1575	gaa Glu	gaa Glu	tgt Cys	att Ile	att Ile 1580	tct Ser	gcc Ala		4787
15	cca Pro	aca Thr 1585	aag Lys	tca Ser	tca Ser	cgt Arg	aaa Lys 1590	gca Ala	aaa Lys	aag Lys	cca Pro	gcc Alā 1595	cag Gln	act Thr	gct Ala	4832
13	tca Ser	aaa Lys 1600	tta Leu	cct Pro	cca Pro	cct Pro	gtg Val 1605	gca Ala	agg Arg	aaa Lys	cca Pro	agt Ser 1610	cag Gln	ctg Leu	cct Pro	4877
20	gtg Val	tac Tyr 1615	aaa Lys	ctt Leu	cta Leu	cca Pro	tca Ser 1620	caa Gln	aac Asn	agg Arg	ttg Leu	caa Gln 1625	ccc Pro	caa Gln	aag Lys	4922
25	cat His	gtt Val 1630	Ser	ttt Phe	aca Thr	ccg Pro	ggg Gly 1635	gat Asp	gat Asp	atg Met	cca Pro	cgg Arg 1640	gtg Val	tat Tyr	tgt Cys	4967
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35	gat Asp	cta Leu 1660	aca Thr	atc Ile	gaa Glu	tcc Ser	cct Pro 1665	cca Pro	aat Asn	gag Glu	tta Leu	gct Ala 1670	gct Ala	gga Gly	gaa Glu	5057
33							cag Gln 1680									5102
40	acc Thr	att Ile 1690	cct Pro	aca Thr	gaa Glu	ggc Gly	aga Arg 1695	agt Ser	aca Thr	gat Asp	gag Glu	gct Ala 1700	caa Gln	gga Gly	gga Gly	5147
45	aaa Lys	acc Thr 1705	tca Ser	tct Ser	gta Val	acc Thr	ata Ile 1710	cct Pro	gaa Glu	ttg Leu	gat Asp	gac Asp 1715	aat Asn	aaa Lys	gca Ala	5192
50	gag Glu	gaa Glu 1720	ggt Gly	gat Asp	att Ile	ctt Leu	gca Ala 1725	gaa Glu	tgc Cys	att Ile	aat Asn	tct Ser 1730	gct Ala	atg Met	ccc Pro	5237
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,,,	cag Gln	gtc Val 1750	cag Gln	caa Gln	gca Ala	tct Ser	gcg Ala 1755	tcg Ser	tct Ser	tct Ser	gca Ala	ccc Pro 1760	aac Asn	aaa Lys	aat Asn	5327
60	cag Gln	tta Leu 1765	gat Asp	ggt Gly	aag Lys	aaa Lys	aag Lys 1770	aaa Lys	cca Pro	act Thr	tca Ser	cca Pro 1775	gta Val	aaa Lys	cct Pro	5372
	ata	cca	caa	aat	act	gaa	tat	agg	aca	cgt	gta	aga	aaa	aat	gca	5417

	Ile	Pro 1780		Asn	Thr	Glu	Tyr 1785		Thr	Arg	Val	Arg 1790	Lys	Asn	Ala	•
5			Lys					Ala				ttc Phe 1805				5462
10			Ser					Leu				tcc Ser 1820	Lys		ttc Phe	5507
15			Lys					Glu		Arg		aga Arg 1835				5552
13			Asp					Tyr				gaa Glu 1850				5597
20			Phe					Ser				cta Leu 1865				5642
25			Asp									gaa Glu 1880			aag Lys	5687
30			Glu									acc Thr 1895	-	cac His	aca . Thr	5732
35	-	cta Leu 1900					caa Gln 1905		-		-	aca Thr 1910		gct Ala		5777
33												ccc Pro 1925		ctt Leu		5822
40		caa Gln 1930										ata Ile 1940				5867
45												gct Ala 1955				5912
50												agt Ser 1970				5957
55												gaa Glu 1985				6002
55												agt Ser 2000				6047
60												gaa Glu 2015				6092
	gtt	tgt	ttc	tca	aga	aac	agt	tct	ctc	agt	tct	ctt	agt	att	gac	6137

.: 39 . .

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5	tct Ser	gaa Glu 2035	gat Asp	gac Asp	ctg Leu	ttg Leu	cag Gln 2040	gaa Glu	tgt Cys	ata Ile	agc Ser	tcc Ser 2045	gca Ala	atg Met	cca Pro	6182
10	aaa Lys	aag Lys 2050	Lys	aag Lys	cct Pro	tca Ser	aga Arg 2055	ctc Leu	aag Lys	ggt Gly	gat Asp	aat Asn 2060	gaa Glu	aaa Lys	cat His	6227
15	agt Ser	ccc Pro 2065	aga Arg	aat Asn	atg Met	ggt Gly	ggc Gly 2070	ata Ile	tta Leu	ggt Gly	gaa Glu	gat Asp 2075	ctg Leu	aca Thr	ctt Leu	6272
												cat His 2090				6317
20												cag Gln 2105				6362
25		tcc Ser 2110										gct Ala 2120				6407
30												atc Ile 2135		tcc Ser		6452
35												ctt Leu 2150		cct Pro		6497
33		gaa Glu 2155										cca Pro 2165				6542
40												aag Lys 2180		gaa Glu		6587
45												tat Tyr 2195		agt Ser		6632
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55	aca Thr	atg Met 2230	att Ile	cat His	att Ile	cca Pro	gga Gly 2235	gtt Val	cga Arg	aat Asn	agc Ser	tcc Ser 2240	tca Ser	agt Ser	aca Thr	6767
60	agt Ser	cct Pro 2245	gtt Val	tct Ser	aaa Lys	aaa Lys	ggc Gly 2250	cca Pro	ccc Pro	ctt Leu	aag Lys	act Thr 2255	cca Pro	gcc Ala	tcc Ser	6812
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5	gcc Ala	aag Lys 2275	Pro	tct Ser	gtg Val	aaa Lys	tca Ser 2280	Glu	tta Leu	agc Ser	cct Pro	gtt Val 2285	gcc Ala	agg Arg	cag Gln	690:	2
10	aca Thr	tcc Ser 2290	Gln	ata Ile	ggt Gly	GJ À ààà	tca Ser 2295	Ser	aaa Lys	gca Ala	Pro	tct Ser 2300	aga Arg	tca Ser	gga Gly	694	7
15			Asp									caa Gln 2315				699	2
13			Ile					Arg				tcc Ser 2330				703	7
20			Ile									ctt Leu 2345				- 708:	2
25	tca Ser	tcc Ser 2350	cct Pro	agt Ser	act Thr	gct Ala	tca Ser 2355	act Thr	aag Lys	tcc Ser	tca Ser	ggt Gly 2360	tct	gga Gly	aaa Lys	712	7
30	atg Met	tca Ser 2365	tat Tyr	aca Thr	tct Ser	cca Pro	ggt Gly 2370	aga Arg	cag Gln	atg Met	agc Ser	caa Gln 2375	cag Gln	aac Asn	ctt Leu	7172	2
35												agt Ser 2390		cca Pro	-	721	7
33	agt Ser	gag Glu 2395	tct Ser	gcc Ala	tcc Ser	Lys	gga Gly 2400	cta Leu	aat Asn	cag Gln	atg Met	aat Asn 2405	aat Asn	ggt Gly	aat Asn	7262	2
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5 .							gga Gly 2520							gat Asp		7622
10							agt Ser 2535								agg Arg	7667
15							gag Glu 2550									7712
13							aga Arg 2565									7757
20							tcc Ser 2580									7802
25							att Ile 2595							aaa Lys	•	7847
30							gga Gly 2610							gaa Glu		7892
35							agt Ser 2625							tca Ser		7937
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40							gag Glu 2655							gag Glu		8027
45	-						aga Arg 2670							ggt Gly		8072
50	act Thr	ccc Pro 2680	ccg Pro	gtg Val	att Ile	gac Asp	agt Ser 2685	gtt Val	tca Ser	gaa Glu	aag Lys	gca Ala 2690	aat Asn	cca Pro	aac Asn	8117
55	att Ile	aaa Lys 2695	gat Asp	tca Ser	aaa Lys	gat Asp	aat Asn 2700	cag Gln	gca Ala	aaa Lys	caa Gln	aat Asn 2705	gtg Val	ggt Gly	aat Asn	8162
<i>J J</i>							acc Thr 2715									8207
60	tcc Ser	ttt Phe 2725	att Ile	cag Gln	gtg Val	gat Asp	gcc Ala 2730	cct Pro	gac Asp	caa Gln	aaa Lys	gga Gly 2735	act Thr	gag Glu	ata Ileʻ	8252
	aaa	cca	gga	caa	aat	aat	cct '	gtc	cct	gta	tca	gag	act	aat	gaa	8297

	Lys	Pro 2740		Gln	Asn	Asn	Pro 2745		Pro	Val	Ser	Glu 2750		Asn	Glu	
5	-	tct Ser 2755	ata Ile	gtg Val	gaa Glu	cgt Arg	acc Thr 2760	cca Pro	ttc Phe	agt Ser	tct Ser	agc Ser 2765	agc Ser	tca Ser		8342
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15	ttt Phe	aat Asn 2785	tac Tyr	aac Asn	cca Pro	agc Ser	cct Pro 2790	Arg	aaa Lys	agc Ser	agc Ser	gca Ala 2795	gat Asp	agc Ser	act Thr	8432
		gct Ala 2800	Arg													8477
20		aag Lys 2815	Arg					Asp						gga Gly		8522
25		agt Ser 2830	Pro											tct Ser		8567
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	Lys Me	t GIV	20	ser	Asn	Leu	Arg	25	GIU	ren	GIU	Asp	30	Ser	ASII	•
45	His Le		Lys	Leu	Glu	Thr		Ala	Ser	Asn	Met		Glu	Val	Leu	
	_	35					40					45	_	_		
	Lys Gl 50		Gln	Gly	Ser	Ile 55	Glu	Asp	Glu	Ala	Met 60	Ala	Ser	Ser	GTĀ	
50	Gln Il	e Asp	Leu	Leu		Arg	Leu	Lys	Glu		Asn	Leu	Asp	Ser		
	65				70					75					80	
55	Asn Ph	e Pro	Gly	Val 85	Lys	Leu	Arg	Ser	Lys 90	Met	Ser	Leu	Arg	Ser 95	Tyr	
	Gly Se	r Arg	Glu	Gly	Ser	Val	Ser	Ser	Arg	Ser	Gly	Glu	Cys	Ser	Pro	
			100					105					110			
60	Val Pr	o Met		Ser	Phe	Pro	Arg 120	Arg	Gly	Phe	Val	Asn 125	Gly	Ser	Arg	
	Glu Se			<b>∏</b> ••••	T 011	G1		Lev	G111	Luc	Gl 11	Ara	Ser	Ten	Len	
	GIU Se		от.	TÄL	⊥1∈ ſl	135	GIU	TEU	GIU	-y5	140	****9		<b></b> u		

	Leu 145	Ala	Asp	Leu	Asp	Lys 150	Glu	Glu	Lys	Glu	Lys 155	Asp	Trp	Tyr	Tyr	Ala 160
5	Gln	Leu	Gln	Asn	Leu 165	Thr	Lys	Arg	Ile	Asp 170	Ser	Leu	Pro	Leu	Thr 175	Glu
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	Ala	Arg	Gln 195	Ile	Arg	Val	Ala	Met 200	Glu	Glu	Gln	Leu	Gly 205	Thr	Cys	Gln
15	Asp	Met 210	Glu	Lys	Arg	Ala	Gln 215	Arg	Arg	Ile	Ala	Arg 220	Ile	Gln	Gln	Ile
	Glu 225	Lys	Asp	Ile	Leu	Arg 230	Ile	Arg	Gln	Leu	Leu 235	Gln	Ser	Gln	Ala	Thr 240
20	Glu <sup>°</sup>	Ala	Glü	Arg	<b>Ser</b> 245	Ser	Gŀn	·Asn	ГÀЗ	His 250	Glu	Thr	Gly	Ser	His 255	Asp
25	Ala	Glu	Arg	Gln 260	Asn	Glu	Gly	Gln	Gly 265	Val	Gly	Glu	Ile	Asn 270	Met	Ala
	Thr	Ser	Gly 275	Asn	Gly	Gln	Gly	Ser 280	Thr	Thr	Arg	Met	Asp 285	His	Glu	Thr
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	Thr 305	Ser	His	Leu	Gly	Thr 310	ГÀЗ	Val	Glu	Met	Val 315	Tyr	Ser	Leu	Leu	Ser 320
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			355			Gln		360					365			
45		370				Arg	375					380				
	385					Ile 390					395					400
50					405	Val				410					415	
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			435			Met		440					445			
60	Ala	Val 450	Cys	Val	Leu	Met	Lys 455	Leu	Ser	Phe	Asp	Glu 460	Glu	His	Arg	His
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	Val	Asp	Cys	Glu	Met 485	Tyr	Gly	Leu	Thr	Asn 490	Asp	His	Tyr	Ser	11e 495	Thi
5	Leu	Arg	Arg	<b>Tyr</b> 500	Ala	Gly	Met	Ala	Leu 505	Thr	Asn	Leu	Thr	Phe	Gly	Asp
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	Trp	Asn	Leu 595	Ser	Ala	His	Cys	Thr 600	Glu	Asn	Lys	Ala	Asp 605	Ile	Суз	Ala
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